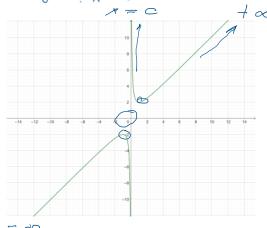
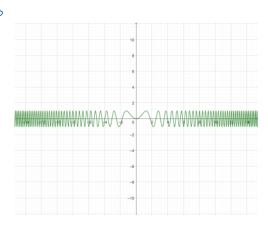


$$a)$$
  $y = x + \frac{1}{x}$ 

c) 
$$N = \frac{x^2 - 5x + 6}{x^2 - 3x + 2}$$





Salsie funtoie na dnes:  

$$y = \ln(x - \sqrt{x^2 - 1})$$

$$y = \frac{3 \times 3 - 1}{2x^2 - 2}$$

$$y = \sqrt{x^2 - x^2}$$

$$y = \ln\left(\frac{1 + x}{1 - x}\right)$$

Est ine rea: - asymptog horizontalne, vertikalne, sikue - inflex ne body

Asymptota  $M = x + \frac{1}{x}$ 

$$y = D \times + 9$$

Mra, y = 1 100

 $\lim_{x \to \infty} \frac{y}{x} = \lim_{x \to \infty} \frac{1}{x} = 1$ 

 $\lim_{x \to 0+} \frac{x+\frac{1}{x}}{x} = +\infty$ lin\_ x + 1 = -

 $\lim_{x \to 0^{-}} x + \frac{1}{x} = -\infty$  $M = S_{\text{m}} \times^2$  $\mathcal{D}_{:}\mathcal{R}$  $\Omega = -1.1$ Non six heexistye YE>0: ] XE = x> XE = | a - shx2 | e E Pognúc od X6 = X 2 = 1 buch lub. blizko. Estreny:  $y' = \cos x^2 \cdot 2x = 0$ x = 0  $Ct > x^2 = 0$ x2= 7 + ETT & = 0, ±1(±2-- $M'' = (2 \times \omega \times )^2 = 2 \omega \times ^2 - (2 \times )^2 \sin x^2$ = 2 (coex² - x² sin x²) = 2 (1 - sin x² - x² sin x²) = = 2 - sin x2 (1 + x2)

y = Suix2 x 2 - 1 + En

$$x^{2} = \frac{\pi}{2} + k\pi$$

$$\sin x^{2} = \sin \left(\frac{\pi}{2} + k\pi\right) = \frac{\pi}{2} \cos k\pi + \cos \frac{\pi}{2} \sin k\pi$$

$$\sin x^{2} = \sin \left(\frac{\pi}{2} + k\pi\right) = (-1)^{k}$$

$$\sin x^{2} = \sin \left(\frac{\pi}{2} + k\pi\right) = (-1)^{k}$$

$$M = \frac{x^{2} - 5x + k}{x^{2} - 3x + 2}$$

$$D: \left\{x : x^{2} - 3x + 2 + 2 + 6\right\} \cdot \left\{x - 2\right\} (x - 1)$$

$$y = \frac{x^{2} - 5x + 6}{(x - 1)(x - 2)} = 1 + \frac{(-2x + 5)}{(x - 1)(x - 2)}$$

$$\left(x^{2} - 5x + 6\right) \cdot \left(x^{2} - 3x + 2\right) = 1$$

$$\left(x^{2} - 5x + 6\right) \cdot \left(x^{2} - 3x + 2\right) = 1$$

$$\left(x^{2} + 3x - 2\right)$$

$$\left(x^{2} - 5x + 6\right) \cdot \left(x^{2} - 3x + 2\right) = 1$$

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$$\left(x^{2} - 5x + 6\right) \cdot \left(x^{2} - 3x + 2\right) = 1$$

$$\frac{1}{y^{2}} = \frac{3 \times^{3} - 1}{2 \times^{3} - 2}$$

$$\frac{1}{2} = \frac{3 \times^{3} - 1}{2 \times^{3} - 2}$$

$$\frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times$$

Erik 2024-03-15 Strana 4

B=2

$$\frac{(3-A-B)\times + (-1-A+B)}{3=A+13} = 0$$

$$\frac{3}{3=A+13}$$

$$-1=A-B$$

$$A = (x-1) + (x) = 1$$

$$= \frac{3x-1}{x+1} = \frac{2}{x} = 1$$

$$= \frac{3x-1}{x-1} \times = 1$$

$$= \frac{3}{x} \times + \frac{1}{x-1} + \frac{2}{x+1}$$

$$\lim_{x \to -1^{-}} \frac{3}{2} \times + \frac{1}{x-1} + \frac{2}{x+1}$$

$$\lim_{x \to -1^{-}} \frac{3}{2} \times + \frac{1}{x-1} + \frac{2}{x+1}$$

$$\lim_{x \to -1^{-}} \frac{3}{2} \times + \frac{1}{x-1} + \frac{2}{x+1}$$

$$\lim_{x \to -1^{-}} \frac{3}{2} \times + \frac{1}{x-1} + \frac{2}{x+1}$$

$$\lim_{x \to -1^{-}} \frac{1}{x+1} \times -1 = 1$$

$$\left(\frac{3}{2} \times + \frac{1}{x-1} + \frac{2}{x+1}\right)^{1} = \frac{3}{2} - \frac{1}{(x-1)^{2}} - \frac{2}{x+1} = 6$$

 $y = \frac{3x^3 - 1}{2x^2 - 2}$ 

$$y = \ln\left(x - \sqrt{x^2 - 1}\right)$$

$$y = \frac{x}{\sqrt{a^2 - x^2}}$$

$$y = ln\left(\frac{1+x}{1-x}\right)$$